

FIVE PERCENT PLAN FOR PM-10 FOR THE MARICOPA COUNTY NONATTAINMENT AREA

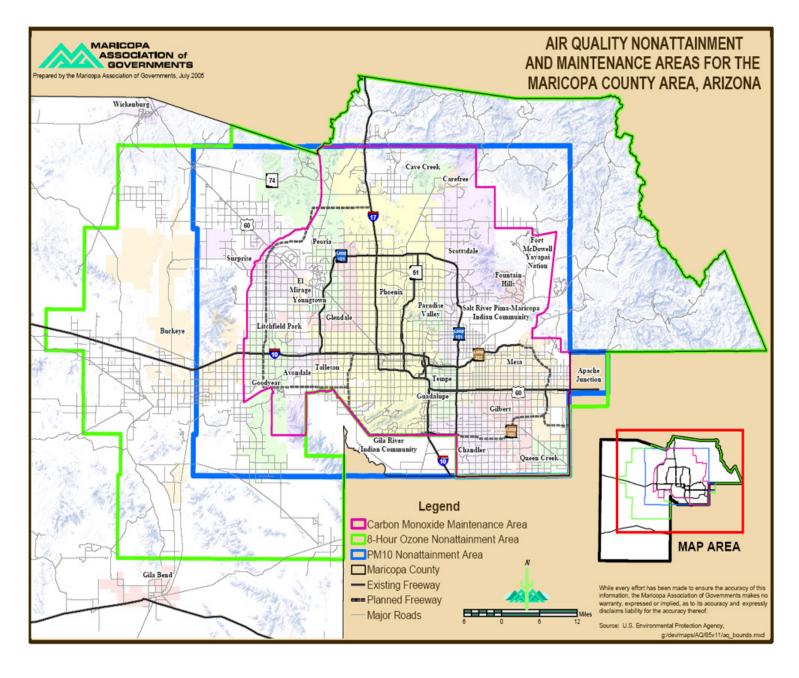
Agricultural Best Management Practices Committee

June 27, 2006







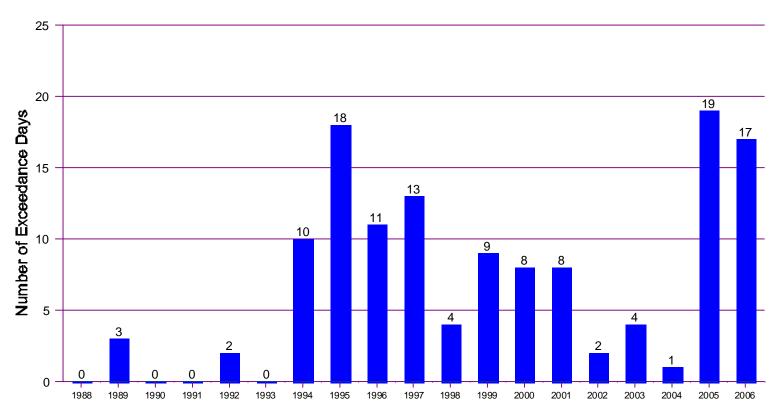






PM-10 Monitoring Data

EXCEEDANCES OFTHE 24-HOUR PM-10 STANDARD IN THE MARICOPA COUNTY NONATTAINMENT AREA



Notes:

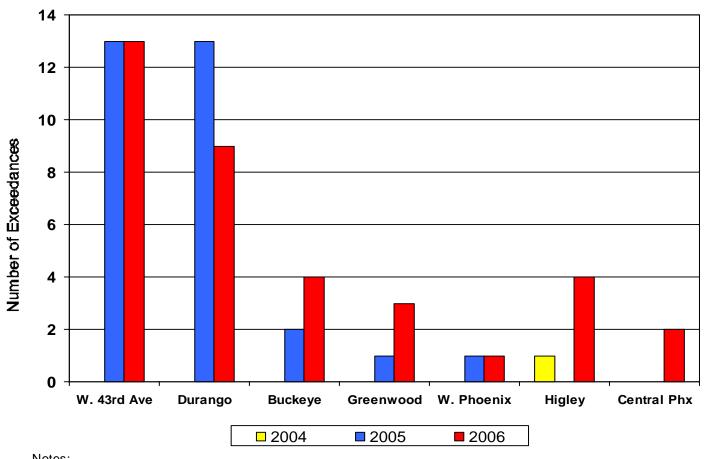
- 1. The 2006 data have not been validated by the Maricopa County Air Quality Department and, therefore, is preliminary and subject to change.
- 2. Monitoring data for 2006 is through June 22, 2006





PM-10 Monitoring Data

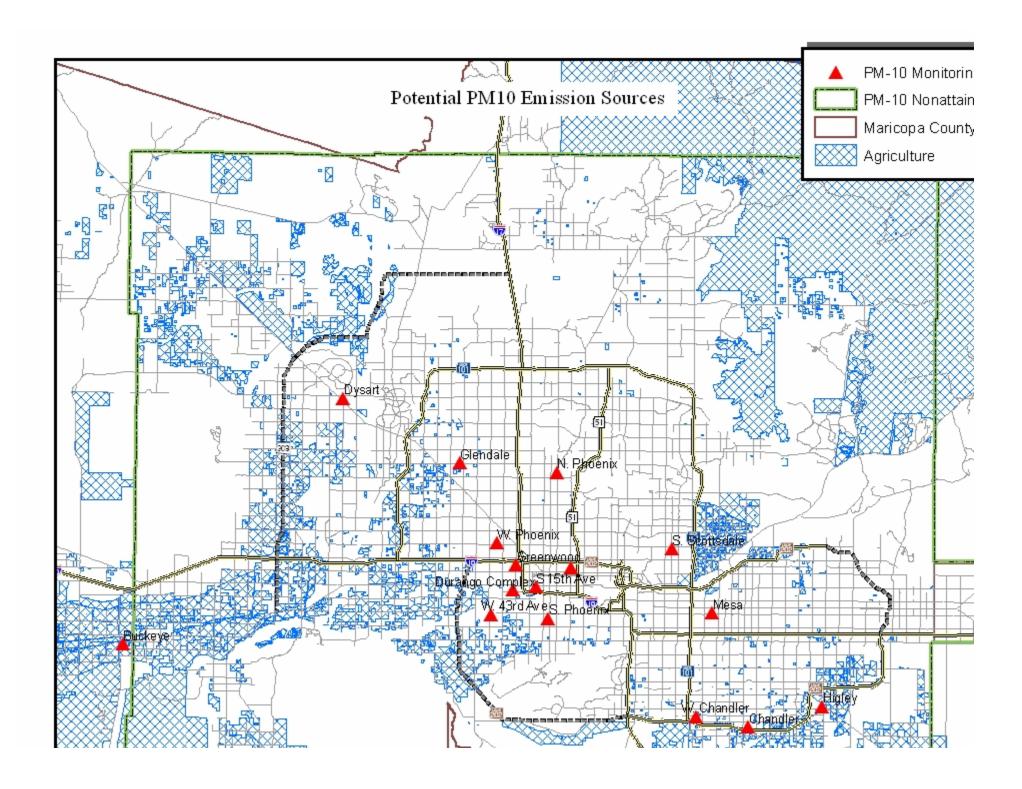
EXCEEDANCES OF THE 24-HR PM-10 STANDARD BY MONITOR IN THE MARICOPA COUNTY NONATTAINMENT AREA



Notes:

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Five Percent Plan for PM-10

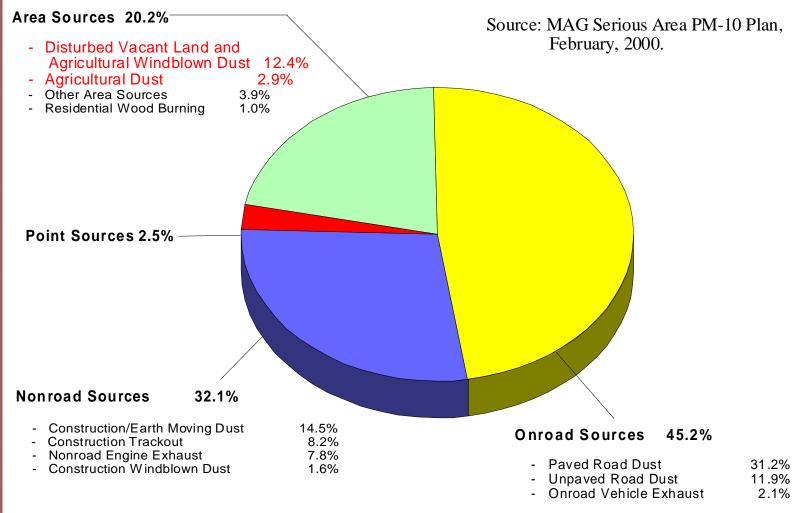
- Required by Clean Air Act Section 189(d)
- Due to EPA by December 31, 2007
- 5 percent reduction in emissions per year until PM-10 standard is attained
- Based upon most recent emissions inventory (2005)
- Demonstrate attainment via modeling
- 3 years of clean data needed at all PM-10 monitors to attain the standard
 - Earliest: 2007, 2008, and 2009





2006 Regional PM-10 Emissions with Committed Control Measures

(Percent of Total Emissions)





ENVIRONMENTAL SERVICES

NOTES:

¹In addition, the emission reduction includes Dust Control Plans for Construction/Land Clearing and Industrial Sites

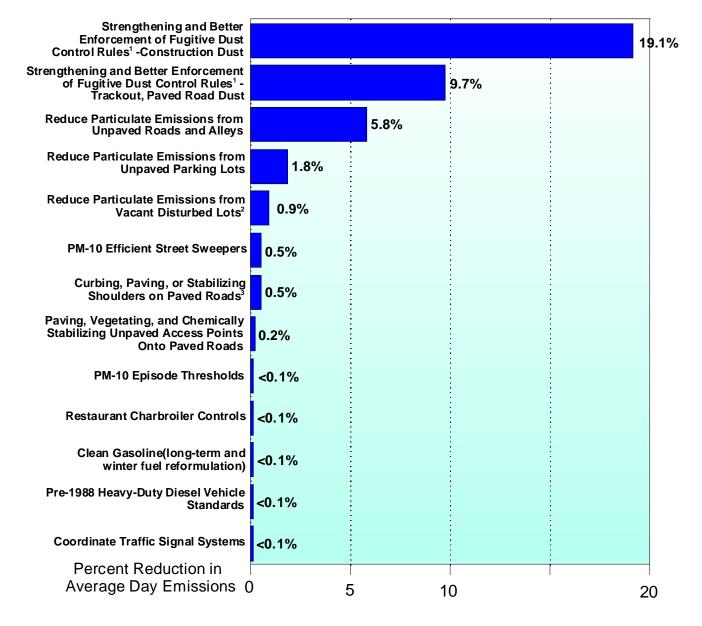
²In addition, the emission reduction includes Dust Abatement and Management Plan for State Lands

³In addition, the emission reduction includes Reduce Particulate Emissions from Unpaved Shoulders on Targeted Arterials



2006 PM-10 Emission Reductions

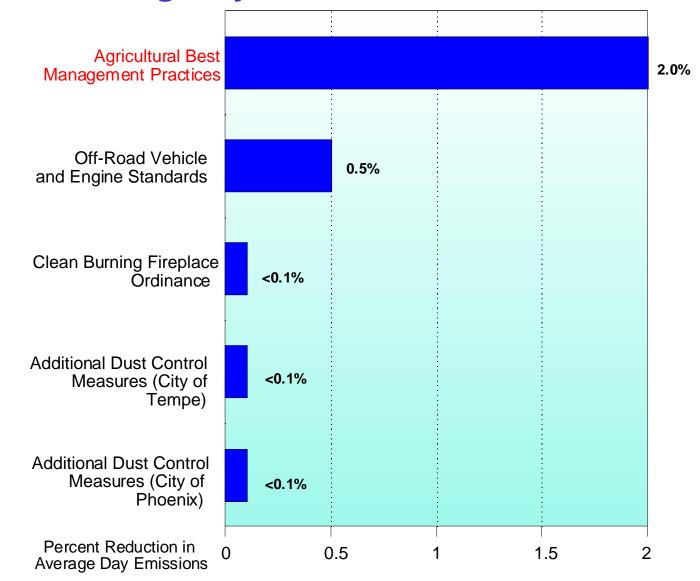
From Committed Control Measures





2006 PM-10 Emission Reductions

From Contingency Control Measures







Five Percent Plan for PM-10 Tentative Schedule

- Feb 2007 Emissions and dispersion modeling
- Feb-Mar 2007 Suggested List of Measures for consideration
- Jun 2007 Commitments to implement measures
- Sep 2007 Document available
- Oct 2007 Public hearing
- Oct 2007 AQTAC recommendation
- Dec 2007 Regional Council action
- Dec 2007 Submit to ADEQ/EPA





Clean Air Act Sanctions

Sanctions imposed for

- Failure to submit plan
- Failure to implement any plan requirement
- Failure to make any required submission
- EPA disapproval of plan

Sanctions timeline

- 18 months Tighter controls on major industries (2 to 1 offsets in emissions)
- 24 months Loss of federal highway funds and federal implementation plan





Failure to Attain the Standards

- Continue to add more measures to reduce emissions by 5 percent per year until attainment is achieved, as measured by the monitoring data
- Best Course of Action Attain the standards as quickly as possible





EPA Proposes New Particulate Standards in January 2006

- Stricter fine particulate standard
- New coarse particulate standard
 - Exemptions for rural windblown dust, agriculture, and mining
- Revoke annual PM-10 standard
- Revoke 24-hour PM-10 standard EXCEPT in areas with violating monitors and population of 100,000+
 - 24-hour PM-10 standard will remain in place until July 2013 for this region
- Legal challenges of new particulate standards are likely to occur





Recent Actions to Reduce PM-10

- Observations at monitors by ADEQ, Maricopa County, and MAG
- Phoenix and Maricopa County have stepped up dust control in hotspot areas
 - Daily street sweeping pilot test
 - Dust suppressants and no parking signs on unpaved shoulders
 - Police enforcement of speed limits, parking on shoulders, and passing
 - Unpaved parking lot enforcement
 - Intersection improvements
 - County Air Quality staff estimate that the above efforts reduced PM-10 by about 20 ug/m³ (13% of standard)
- Peoria approach for dust control sent to MAG member agencies





Recent Actions to Reduce PM-10

- MAG workshop on model dust control ordinance and best practices on February 10, 2006
 - Peoria, Phoenix, Mesa approaches
 - Maricopa County offered to train city staff to observe dust control violations and report them to the County
- Agricultural Best Management Practices Committee meeting on April 17, 2006
 - Will consider additional measures





For more information

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